

I CLAIM AS MY INVENTION:

1. A method for producing a print block for rotogravure, comprising the steps of:

applying a chromium layer to a print block as an engraving surface; and

by use of a laser beam, engraving cups in the chromium layer engraving surface.

2. The method according to claim 1 wherein the chromium layer is galvanically applied.

3. The method according to claim 1 wherein the chromium layer is provided with a predetermined roughness.

4. The method according to claim 3 wherein the roughness is generated by at least one of polishing and grinding.

5. The method according to claim 1 wherein the engraving is implemented with a plurality of at least one of simultaneous and successive laser beams.

6. A method for rotogravure printing, comprising the steps of:
providing a print block having a core;
applying a chromium containing layer on the print block core as an engraving surface;

laser beam engraving cups into the engraving layer; and
inserting the print block in a printing machine and printing by use of the print block.

7. The method according to claim 6 wherein after a completion of use in the printing machine, removing the chromium layer from the print block.

8 The method according to claim 6 including the step of providing the chromium layer with a predetermined roughness.

9. The method according to claim 8 wherein the roughness is generated by at least one of polishing and grinding.

10. The method according to claim 6 including the step of galvanically applying the chromium layer.

11. The method according to claim 6 including the step of providing a base copper layer on the core and then applying the chromium containing layer onto the base copper layer.

12. The method according to claim 6 wherein the core comprises steel.

13. The method according to claim 6 wherein the chromium layer comprises only chromium.

14. The method according to claim 6 wherein the chromium containing layer comprises a chromium alloy.

15. The method according to claim 6 wherein the chromium containing layer has a thickness of approximately 25 μm .

16. The method according to claim 6 wherein the rotogravure printing machine comprises heliorotogravure.

17. A method for producing a print block for rotogravure, comprising the steps of:

providing a cylindrical core;

galvanically applying a chromium layer to the copper layer as an engraving surface; and

by use of a laser beam, engraving cups in the chromium layer engraving surface.

18. A rotogravure print block, comprising:

a core;

a chromium layer over the core; and

laser engraved cups in the chromium layer.

19. The print block according to claim 18 wherein the core comprises steel and the chromium layer is galvanically applied directly on the steel.

20. The block according to claim 18 wherein a copper base layer is provided on the core and the chromium layer is applied on the base layer.

21. The block according to claim 18 wherein the chromium layer is provided with a predetermined roughness.

22. The block according to claim 18 wherein the chromium layer is only chromium.

23. The block according to claim 18 wherein the chromium layer comprises a chromium alloy.

24. The block according to claim 18 wherein the chromium has a thickness of approximately 25 μm .

25. A rotogravure print block, comprising:
a steel cylindrical core;
a copper layer on the core;
a chromium layer on the copper layer; and
laser engraved cups in the chromium layer.